· CLAIMS

What is claimed is:

- 1. A chip comprising a planar substrate material, said chip having at least one edge with a concave shape recessed in one direction.
- 2. The chip as claimed in claim 1, said chip further comprising an arrayed waveguide grating provided on said chip.
- 3. The chip as claimed in claim 2, wherein the shape of said chip is determined by the shape of said arrayed waveguide grating.
- 4. The chip as claimed in claim 2, said chip further comprising reinforcement means mounted on at least a part of said chip.
- 5. The chip as claimed in claim 4, wherein said reinforcement means is mounted on a narrow portion of said chip.
- 6. The chip as claimed in claim 4, wherein said reinforcement means is a copper plate.
- 7. The chip as claimed in claim 4, wherein said reinforcement means has a shape substantially similar to the shape of said chip.

8. The chip as claimed in claim 4, wherein said reinforcement means is larger than said chip.

9. A chip, comprising:

a first chip having at least one edge with a concave shape recessed in one direction;

a second chip having a contour that is substantially similar to the contour of said first chip; and

combining means for combining said first chip with said second chip.

- 10. The chip as claimed in claim 9, wherein said combining means is an adhesive.
 - 11. The chip as claimed in claim 9, wherein: said first chip is cut from a first wafer; and said second chip is cut from a second wafer.
- 12. The chip as claimed in claim 11, wherein the purity level of said second wafer is less than the purity level of said first wafer.
- 13. The chip as claimed in claim 11, wherein said first and second wafers comprise a planar substrate material.

- 14. A wafer comprising a plurality of chips, wherein each chip has at least one edge with a concave shape recessed in one direction.
- 15. The wafer as claimed in claim 14, wherein said concave shape of said chips that are adjacent to each other are at least partially overlapped with each other.
- 16. The wafer as claimed in claim 14, wherein each of said plurality of chips have the same shape.
- 17. The wafer as claimed in claim 16, wherein the shape of each chip is an arcuate shape having two curved-line portions convexed in the same direction, and said chips are arranged at a predetermined spacing and respective end portions of said chips are connected to two mutually parallel straight lines.
- 18. A wafer as claimed in claim 16, wherein the shape of each chip is a funnel shape obtained by dividing in half a rhombus having two curved-line portions convexed in a direction moving away from each other, and said chips are arranged at a predetermined spacing and the respective end portions of said chips are connected to two mutually parallel straight lines.
- 19. The wafer as claimed in claim 14, wherein the concave shape of each chip is determined by the shape of an arrayed waveguide grating provided

on each chip.

20. A module, comprising:

a chip having at least one edge with a concave shape recessed in one direction;

a box comprised of an upper casing and a lower casing, said box accommodating said chip; and

a support body provided in said box.

- 21. The module as claimed in claim 20, further comprising temperature detecting means that detect the temperature inside of said box.
- 22. The module as claimed in claim 20, wherein said support body is a metal plate.
- 23. The module as claimed in claim 20, further comprising temperature detecting means provided on said support body.
- 24. The module as claimed in claim 23, wherein said temperature detecting means contacts said chip.
- 25. The module as claimed in claim 20, wherein said support body further comprises a spring part, said spring part in contact with a portion of said

box.

- 26. The module as claimed in claim 20, said support body further comprising at least one heat insulating column, said heat insulating column contacting a portion of said box.
- 27. The module as claimed in claim 20, further comprising a buffer agent disposed in an interior portion of said box.
 - 28. A chip manufacturing method, said method comprising:

forming a plurality of elements on a wafer, each element bounded by its respective contours, and each element having at least one edge with a concave shape recessed in one direction; and

cutting out said plurality of elements from said wafer to obtain chips each comprising an individual element.

- 29. The chip manufacturing method as claimed in claim 28, wherein said chips are cut from said wafer using laser beam.
- 30. The chip manufacturing method as claimed in claim 28, wherein said chips are cut from said wafer using an ultrasonic vibration tool.
 - 31. The chip manufacturing method as claimed in claim 28,

wherein said chips are cut from said wafer using hydraulic pressure.

- 32. The chip manufacturing method as claimed in claim 28, wherein dicing is used to cut the straight-line portions of the contours of said elements.
- 33. A chip manufacturing method as claimed in claim 28, further comprising mounting a plate on at least a portion of said chip.
- 34. A chip manufacturing method, said method comprising:

 cutting out a first chip having at least one edge with a concave shape recessed in one direction;

cutting out a second chip having a contour that is substantially similar to the contour of said first chip; and

bonding said first chip to said second chip.

- 35. The chip manufacturing method as claimed in claim 34, wherein said first chip and said second chip are bonded together using an adhesive.
- 36. The chip manufacturing method as claimed in claim 34, wherein:

said first chip is cut from a first wafer; and

said second chip is cut from a second wafer.